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- A multiple semiconductor chip (multi-chip) module for use in 1
- high-power applications, comprising at least a power semiconductor 2
- chip and a control semiconductor chip mounted on an electrically 3
- conductive heat sink, wherein said power semiconductor chip 4
- comprises a Silicon-On-Insulator (SOI) device and said control 5
- semiconductor chip comprises a semiconductor device having a 6
- substrate connected to ground potential, and said power 7
- semiconductor onip and said control semiconductor chip are directly 8
- mounted on said electrically conductive heat sink without the use
- of a separate electrical insulation layer. 10
- A multi-chip module as in claim 1, wherein said control 1 2.
- semiconductor chip semiconductor device comprises a BIMOS device.
- A multi-chip module as in claim 1, wherein said control 1
- semiconductor chip semiconductor device comprises a CMOS device.
- A multi-chip module as in claim 1, wherein said control 1
- semiconductor chip semiconductor device comprises a bipolar device. 2
- A multi-chip module as in claim 1, wherein said conductive 1
- heat sink is connected to ground potential. 2

- 2 heat sink comprises a metal.
- 1 7. A multi-chip module a in claim 6, wherein said metal comprises

A multi-chip module as in claim 1, wherein said conductive

- 2 copper.
- 1 8. A multiple semiconductor chip (multi-chip) module for use in
- 2 high-power applications, comprising a plurality of semiconductor
- 3 chips all directly mounted on an electrically conductive heat sink
- 4 without the use of a separate electrical insulation layer.